#### PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF AN EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 45 AND SCOTT ADAM ROAD IN BALTIMORE COUNTY. MD 45 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A NEMA FOUR-PHASE, FULLY-ACTUATED MODE, AND IS PART OF A HARDWIRE INTERCONNECT TELEMETRY SYSTEM. THE NORTHBOUND AND SOUTHBOUND YORK ROAD MOVEMENTS OPERATE CONCURRENTLY AND THE SCOTT ADAMS AND DEALERSHIP DRIVEWAY MOVEMENTS OPERATE CONCURRENTLY.

A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH VIDEO INTERFACE EQUIPMENT, TELEMETRY CABLE AND ALL NECESSARY EQUIPMENT HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET SHALL BE INSTALLED.

III. INTERCONNECT NOTE

SEE SHEET SP-06 OF 39 FOR INTERCONNECT DETAILS AND QUANTITIES.

#### CONTACTS

OFFICE OF TRAFFIC AND SAFETY **DISTRICT** MR. RICHARD DAFF SR. MS. ERIN KUHN ASSISTANT DISTRICT ENGINEER - TRAFFIC CHIEF. TRAFFIC OPERATIONS 410-787-7630 410-321-2781 MR. ROBERT SNYDER MR. DONALD SCHAEFER ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS ASSISTANT DISTRICT ENGINEER - CONSTRUCTION 410-787-7630 410-321-2821 MR. ED RODENHIZER MR. ANDRE FUTRELL TEAM LEADER SIGNAL OPERATIONS ASSISTANT DISTRICT ENGINEER - MAINTENANCE 410-787-7650 410-321-2761 MR. EUGENE BAILEY MR. MICHAEL PASQUARIELLO TEAM LEADER SIGN OPERATIONS ASSISTANT DISTRICT ENGINEER - UTILITIES 410-787-7670 410-321-2841 MS. DARLENE EIDE MR. DAVID CASTLE SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE) BALTIMORE GAS & ELECTRIC - ELECTRICAL SERVICE 410-787-7668 1-800-233-1854

## EQUIPMENT LIST

DESCRIPTION

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADIMISTRATION

YTITNAUD

CAT CODE

3711 0002		
900000 900000 900000	1 EA 1 EA 1 EA 50 SF 1 EA 1 EA 1 EA	[UPDATED] 4 CHANNEL DETECTOR AMPLIFIER [UPDATED] CONTROLLER ASC II WITH TELEMETRY [UPDATED] CONTROLLER CABINET. SIZE 6 [UPDATED] SHEET ALUMINUM MAST ARM / POLE MOUNTED SIGN  D-3(1) - SCOTT ADAM RD -> (VAR.×16")  D-3(1) - <- SCOTT ADAM RD (VAR.×16")  M1-5(4) - <- NORTH MARYLAND 45 SOUTH -> (78"×36")  M1-5(4) - <- SOUTH MARYLAND 45 NORTH -> (78"×36") [UPDATED] VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS
900000	1 E A	[UPDATED] VIDEO DETECTION INTERFACE EQUIPMENT: 124 CAMERAS
B. EQUIPMENT	TO BE FURNISHED	) AND/OR INSTALLED BY CONTRACTOR
CAT CODE	QUANTITY	DESCRIPTION
201032 203030 585462 585624 600000 634300 655105 8000000	5 CY 2 CY 140 LF 80 LF 41 SF 105 LF 415 SF 415 SF 1 EA 185 LF 50 LF 4 EA 110 LF 10 LF 10 LF 27 EA 95 LF 755 LF 80 LF 360 LF	CLASS 2 EXCAVATION TEST PIT EXCAVATION REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS — ANY WIDTH 24 INCH HEAT APPLIED WHITE PERM.—PREF.THERMOPLASTIC PAVEMENT MARKINGS DETECABLE WARNING SURFACES FOR CURB RAMPS STANDARD TYPE A COMBINATIONA CURB AND GUTTER 12 INCH GUTTER 8 INCH DEPTH 5 INCH CONCRETE SIDEWALK ADJUST EXISTING HANDHOLE TO GRADE ANY SIZE LIGHTING ARM ON SIGNAL POLE WITH 250 WATT HPS LAMP AND LUMINAIRE DISCONNECT, PULL BACK & REROUTE CABLE INSTALL OVERHEAD OR GROUND MOUNTED SIGN MAST ARM POLE & 70 FT MAST ARM ANY 'T' DIMENSION MICROLOOP PROBE (ANY LENGTH) LEAD IN CABLE REMOVE SIGNAL POLE FOUNDATION 12" BELOW GRADE SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCH — BORED SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCH — TRENCHED VIDEO DETECTION CAMERA & CABLE UP TO 500FT TWIN MAST ARM POLE & 50 FOOT / 70 FOOT MAST ARMS ANY 'T' DIMENSION NO. 6 AWG STRANDED BARE COPPER GROUND WIRE 1 INCH ELECTRICAL CONDUIT —GALVANIZED SLEEVE 1 INCH LIQUID TIGHT FLEXIBLE NON—METALLIC CONDUIT FOR DETECTOR SLEEVE METERED SERVICE PEDESTAL EMBEDDED ELECTRICAL CABLE 1—CONDUCTOR, NO.4 AWG THHN/THWN 12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION ELECTRICAL CABLE — 7 CONDUCTOR (NO. 14 AWG) ELECTRICAL CABLE — 7 CONDUCTOR (NO. 14 AWG) ELECTRICAL CABLE — 7 CONDUCTOR (NO. 14 AWG) ELECTRICAL CABLE — 7 CONDUCTOR (NO. 12 AWG), TC SAW CUT FOR SIGNAL (LOOP DETECTOR) INSTALL CONTROLLER AND CABINET — BASE MOUNT
871202	1 E A	INDIALE COMMODILEN MAD CADINET SHOEL

C. IF THE CABINET IS TO BE REMOVED SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR, EXCEPT FOR VIDEO DETECTION CAMERAS, SHALL BECOME THE PROPERTY OF THE CONTRACTOR. EXISTING VIDEO DETECTION CAMERAS SHALL BE RETURNED TO SHA SIGNAL SHOP PERSONNEL AT TURN-ON.

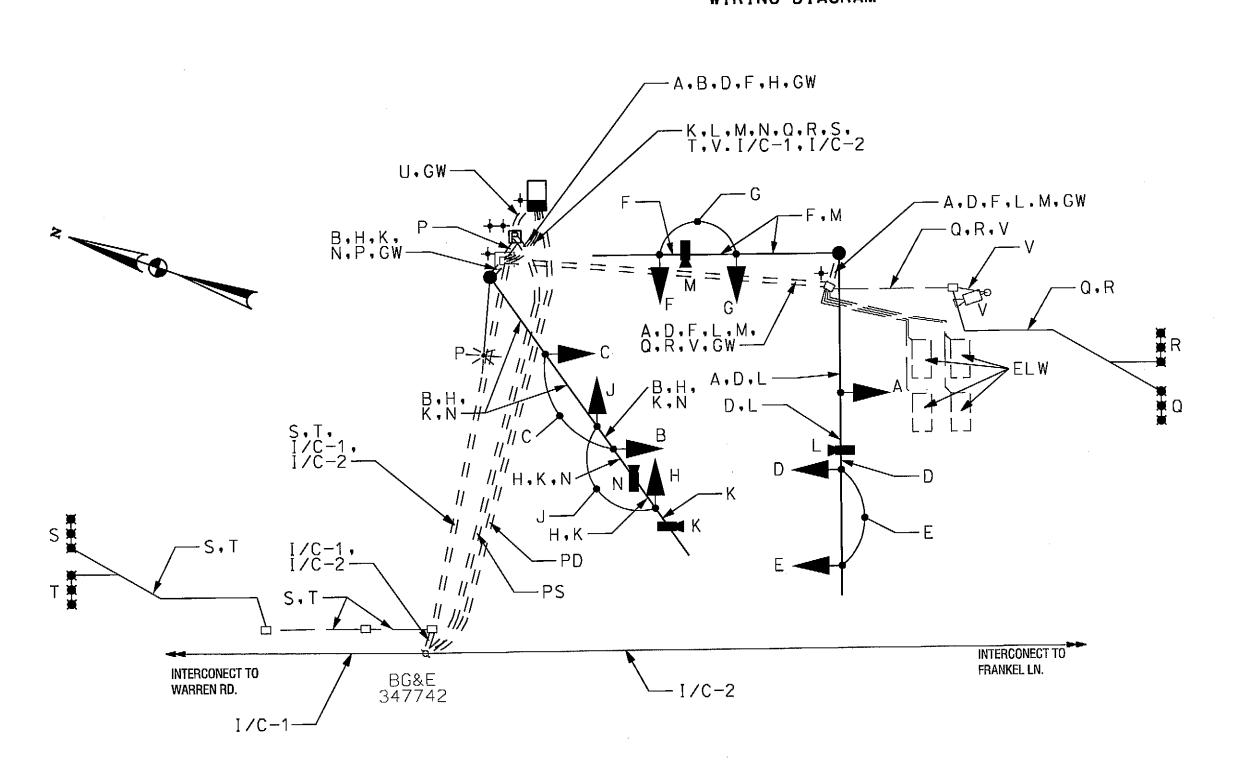


PHASE CHART

1 R Y G	2 R Y G	3 (P) (G)	4 (R) Y (G)	5 (R) > (G)	6 R Y G	7 (R) (Y) (G)	8 (R) (Y) (G)	9 (R) Y (G)
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PHASE 2 & 6	G	G	G	G	G	R	R	R	R	<u></u>
2 & 6 CHANGE	Υ	Υ	Υ	Υ	Υ	R	R	R	R	
PHASE 4 & 8	R	R	R	R	R	G	G	G	G	<u> </u>
4 & 8 CHANGE	R	R	R	R	R	Υ	Υ	Υ	Y	-  -  -
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FLY	FLY	FL⁄R	FL⁄R	FL⁄R	FL⁄R	

# WIRING DIAGRAM



### <u>WIRING KEY</u>

7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

VIDEO DETECTION CABLE

2 CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG) TRAY CABLE

Q R MICROLOOP PROBE LEAD-IN CABLE

U > 3-1 CONDUCTOR ELECTRICAL CABLE (NO. 4 AWG) THHN/THWN

v > RED LIGHT CAMER CABLE

12-PAIR COMMUNICATION CABLE (INTERCONNECT TO WARREN RD)

12-PAIR COMMUNICATION CABLE (INTERCONNECT TO FRANKEL LN)

STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)

PROPOSED UNDERGROUND SERVICE

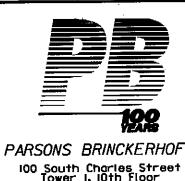
PD > PROPOSED TELEPHONE SERVICE

+ PROPOSED GROUND ROD



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY

TRAFFIC ENGINEERING DESIGN DIVISION MD 45 AND SCOTT ADAM ROAD COCKEYSVILLE, MD



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PARSONS BRINCKERHOFF	
100 South Charles Street Tower I, 10th Floor Baltimore, MD 21201-2727	F
Phone: 410-727-5050 Fax: 410-727-4608	TS

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	SCALE N.T.S.	DATE	6/1/	9 (	CONTRACT NO	BA1195168			
F	DESIGNED BY DRAWN BY CHECKED BY FAP NO	M. FUKUI K. PERMISOHI	N	COUNTY BALTIMORE  LOGMILE 03004507.41  TIMS NO. J639  TOD NO.					
	TS NO. 261F -GI	DRAWING	SP-04	OF 39	SHEET NO.	2 OF 2	!		

PLOTTED: \$DATETIME\$ FILE: T:\173089a\_District6Traffic\trf\Task 4\_TEDD Stimulus\Plans\MD45\_ScottAdam\_Gl.dgn